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TITLE: Track circuit system used in train
detector and train

operation control system - has
controller that detects

location of train based on input
signals of transceivers

arranged on every area unit of
predetermined track

PATENT-ASSIGNEE: HITACHI LTD[HITA]

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JP 11078891 A		March 23, 1999	N/A
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JP 11078891A	N/A	1997JP-
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ABSTRACTED-PUB-NO: JP 11078891A

BASIC-ABSTRACT:

NOVELTY - The track circuit system has a controller (4) that detects the location of a train based on the input signals of transceivers (21-26) arranged on every area unit of a predetermined track. DETAILED DESCRIPTION - The track circuit system has a simulation track circuit (3) equivalent to the track circuits (1T-3T). The transceivers transmit

and receive signals to each simulation track circuit and track circuit for detecting train location. A switching unit selectively connects the transceivers to any one of the track circuits and simulation track circuit. The transceivers are switched over, in which some of the transceivers (21-23) are operated while the other transceivers (24-26) are in standby mode. An INDEPENDENT CLAIM is included for a simulation track circuit.

USE - Used in train detector and train operation control system.

ADVANTAGE - Level of telegraphic message can be adjusted by transmitting the telegraphic message to a simulation track circuit, without transmitting the telegraphic message to the actual track circuit. Wiring between controller and transceivers can be maintained and verified, thus, track circuit can be correctly evaluated by investigating the transceiver receiving the telegraphic message output to the simulation track circuit.

DESCRIPTION OF DRAWING(S) -

The figure shows the entire block diagram of the track circuit system. (1T-3T)

Track circuits; (3) Simulation track circuit; (4)

Controller; (21-26)

Transceivers.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: TRACK CIRCUIT SYSTEM TRAIN DETECT TRAIN
OPERATE CONTROL SYSTEM CONTROL DETECT LOCATE TRAIN BASED
INPUT SIGNAL TRANSCEIVER ARRANGE AREA UNIT PREDETERMINED
TRACK

DERWENT-CLASS: Q21 W01

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